Lumination™ LED Luminaires

IS14

Project name _____

Date _____

Type _____

Product Description:

Lumination LED Luminaires - IS Series are designed to deliver efficient lighting for commercial applications. These efficient lighting fixtures have a long life and deliver a remarkably efficient 120 lumens per watt allowing for lower maintenance and operating costs. Available in Uplight version as well.

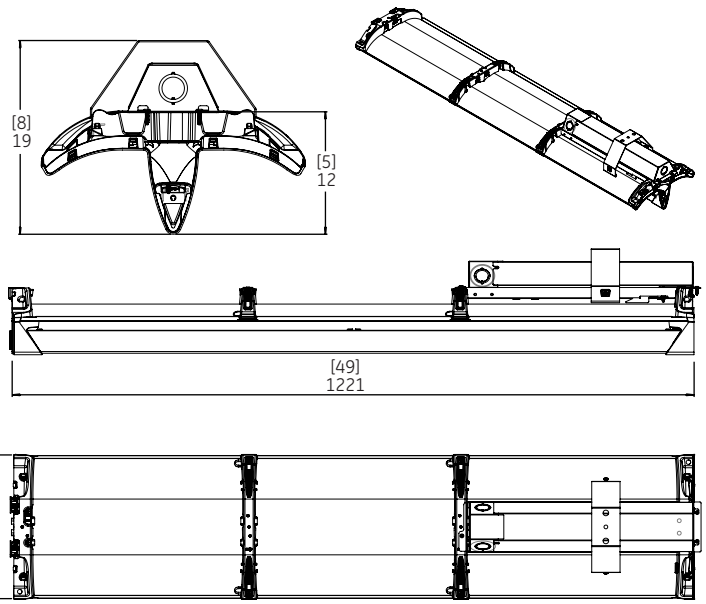
Targeted Performance Summary:

Distribution Patterns: Medium
Delivered Lumen Output: 4000-5200lm
System Input Power: 35W & 44W
Efficacy: 120 LPW
Input Voltage: 120-277V; 347V
Standard Dimming Control: 0-10V, DALI
Dimming Compatability: Refer to Dimmer List
CCT: 3500K & 4000K
Typical CRI: 83
Color Consistency: 4 Step MacAdam Ellipse
Input Frequency (Hz): 50/60Hz
Power Factor: >0.9
Dimensions: 10 x 49 x 8 inches (258 x 1256 x 191 mm)
Mounting: Suspension (see Accessories Table below)
Weight: <10 lbs
IC rating: Non-IC Rated
Warranty: 5 Years standard
Rated Life: L85 @ 75,000 hours
Storage temperature: -40°C to 70°C
Operating temperature: -10° up to 35° C

Maximum Run Length:

Supply Voltage	Lumen Code	
	A	B
120V	192'	160'
277V or 347V	400'	320'

Product Dimensions:



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DESIGNLIGHTS CONSORTIUM®

Ordering Information:

__ - __ - _ - __ - M - _ - SLVR - __

INTERNAL CODE	FIXTURE TYPE (NOMINAL)	VOLTAGE	OPTICAL CODE	MOUNTING	CONTROLLER	LIGHT BAR FINISH	OPTIONS
I = Indirect **S** = Suspended	**14** = 1' x 4' Stand Alone **C4** = 1' x 4' Continous **S4** = 1' x 4' Starter	**0** = 120-277V (UL Version) **D** = 347V		**M** = Suspension Kits, See Accessories table below	**V** = 0-10V **D** = DALI	**SLVR** = Silver	Blank if no options **EL** = Emergency Light

DIMENSION	OPTICAL CODE	DISTRIBUTION/ CONFIGURATION	CCT	CRI	LUMENS	POWER
4 FT	**A2**	Medium, Medium Efficacy	3500	83	4000	35
4 FT	**A3**	Medium, Medium Efficacy	4000	83	4200	35
4 FT	**B2**	Medium, Medium Efficacy	3500	83	4950	44
4 FT	**B3**	Medium, Medium Efficacy	4000	83	5200	44
4 FT	**E2**	Medium, Uplight	3500	83	4000	35
4 FT	**E3**	Medium, Uplight	4000	83	4200	35
4 FT	**F2**	Medium, Uplight	3500	83	4950	44
4 FT	**F3**	Medium, Uplight	4000	83	5200	44

ACCESSORIES	DESCRIPTION CODE	PRODUCT CODE
Mounting Bracket (qty. 10)	GESK30	94210
Suspension Mounting Bracket	GESK16	69076
Suspension Fixed Toggle	GESK17	69075
Canopy Plate Kit (no live feed hole)	GESK21	60658
Canopy Plate Kit (with live feed hole)	GESK03	67654
Suspension Fixed Chain	GESK18	69077

imagination at work

Photometric Data: IS14 Series

IS-X4-0-A3-MX-XXXX.ies

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	111.42
10-20	326.63
20-30	511.96
30-40	650.75
40-50	725.70
50-60	716.76
60-70	609.47
70-80	387.37
80-90	105.20
90-100	34.30
100-110	13.09
110-120	3.11
120-130	0.79
130-140	0.77
140-150	0.83
150-160	0.79
160-170	0.58
170-180	0.21

COEFFICIENTS OF UTILIZATION																		
RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	107	102	97	93	104	100	95	92	95	92	88	91	88	85	87	85	83	80
2	97	88	80	74	94	86	79	73	82	76	71	78	74	69	75	71	68	65
3	88	76	68	61	85	75	66	60	71	64	59	68	62	57	66	61	56	54
4	80	67	58	51	77	66	57	50	63	55	49	60	54	48	58	52	48	45
5	73	59	50	43	71	58	49	43	56	48	42	54	47	41	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	40	36	33
7	62	48	39	32	60	47	38	32	45	38	32	44	37	32	42	36	31	29
8	58	44	35	29	56	43	34	29	41	34	28	40	33	28	39	32	28	26
9	54	40	31	26	52	39	31	26	38	31	25	37	30	25	36	29	25	23
10	50	37	29	23	49	36	28	23	35	28	23	34	27	23	33	27	22	21

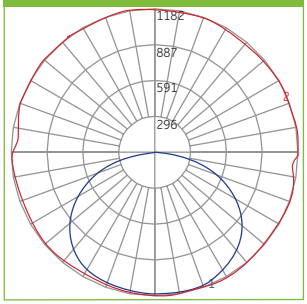
NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	438.05	N.A.	10.40
0-30	950.00	N.A.	22.60
0-40	1600.75	N.A.	38.10
0-60	3043.22	N.A.	72.50
0-80	4040.06	N.A.	96.20

Total Luminaire Efficiency = N.A.%

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45°	4138	4592	4830
55°	4193	4970	5155
65°	4262	5348	5376
75°	4326	5674	5173
85°	4352	3292	3131

POLAR GRAPH



Photometric Data: IS14 Uplight Series

IS-X4-0-E3-MX-XXXX.ies

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	102.74
10-20	301.33
20-30	471.84
30-40	601.55
40-50	675.62
50-60	676.67
60-70	579.21
70-80	358.39
80-90	97.69
90-100	52.22
100-110	110.53
110-120	84.91
120-130	27.45
130-140	25.03
140-150	19.09
150-160	10.48
160-170	4.35
170-180	1.26

COEFFICIENTS OF UTILIZATION																		
RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	117	117	117	117	114	114	114	114	107	107	107	100	100	100	95	95	95	92
1	106	101	96	92	102	98	94	90	92	89	85	87	84	81	82	80	78	75
2	96	87	79	73	92	84	77	72	79	74	69	75	70	66	71	67	64	61
3	87	75	67	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	45	42
5	72	59	49	42	69	57	48	42	54	46	41	51	45	39	48	43	38	36
6	66	52	43	37	64	51	42	36	48	41	35	46	39	34	44	38	33	31
7	61	47	38	32	59	46	38	31	44	36	31	42	35	30	40	34	29	27
8	57	43	34	28	55	42	34	28	40	32	27	38	31	27	36	30	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	22	34	27	22	32	26	21	31	25	21	19

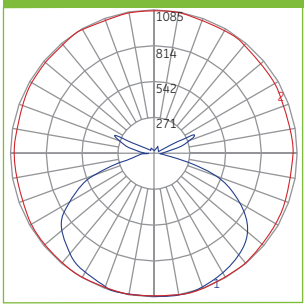
NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	404.07	N.A.	9.6
0-30	875.91	N.A.	20.9
0-40	1477.46	N.A.	35.2
0-60	2829.75	N.A.	67.4
0-80	3767.35	N.A.	89.7

Total Luminaire Efficiency = N.A.%

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45°	3913	4396	4701
55°	3952	4773	5093
65°	3980	5181	5171
75°	3953	5122	4127
85°	3546	2426	3498

POLAR GRAPH



Product Specifications:

Construction:

- Fully recyclable heatsink
- IP Rating: IP20
- Impact Resistance: IK=2

Electrical System:

- Class 1, replaceable, high efficiency LED driver rated for 50,000 hours when used within operating conditions.
- Audible Noise – Per 29CFR 1910 sub part G: <24 dba (1 foot)
- Thermal overload protection shuts down the luminaire when system temperatures exceed designed operating conditions
- THD: <20%
- Transient Protection: 100 kHz ring wave, 2.5 kV level
- Environmental Testing: High Temperature High Humidity: 60°C / 90% (non-condensing)
- Electronic Vibration Testing: Multi Axis, Random Vibration Profile: 2-2000 Hz, 5Gs on electronics
- Compliant with the material restriction requirements of RoHS

Installation:

When ordering Lumination IS Series LED Luminaires 2 mounting brackets are included with each fixture.

Additional mounting brackets can be ordered if needed, depending upon mounting and spacing of application.

For more information and access to all of our resources, including our design tool visit: **www.gelighting.com**

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